



TEKAMAN
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Technical Date Sheet

TKM-J100 Grease



Product Introduction

This product is refined with premium base oil and long-effect compound functional additives, free of solid particles to completely avoid pump and pipeline clogging. It is a light yellow homogeneous grease with balanced consistency, excellent pumpability and high-temperature anti-loss performance. It features superior oxidation and shear stability, fine texture, low operation noise and long service life. It is the standard universal grade for full-electric injection molding machines and CNC machining centers.

Examples of Application

1. Toshiba Full-Electric Injection Molding Machine (TosCAP System)
 2. Toyo Full-Electric Injection Molding Machine (Plastar System)
 3. Mitsubishi Injection Molding Machine (MELSEC System)
 4. Sumitomo Full-Electric Injection Molding Machine (SUMICAP System)
 5. Haitian Full-Electric Injection Molding Machine (HPC Controller)
 6. CNC Machining Center: Mitsubishi(M70/M80), Brother(CNC-S00), DMG(CELOS), Doosan(iPLUS)
 7. Suitable for linear guide rails, ball screws, servo high-speed bearings and precision friction pairs of automated machine tools.
- Temperature Range: -25°C ~ 160°C, short-term peak up to 170°C.

Features and benefits

- High universality: Balanced consistency suitable for most full-electric injection molding machines and standard CNC machining centers on the market.
- Long high-temperature service life: Excellent thermal oxidation stability; effectively extends lubrication maintenance cycle without deterioration under long-term high temperature.
- Low noise for precision operation: Fine and uniform texture, smooth operation and low vibration for high-speed screws and precision guide rails.
- Perfect for centralized lubrication: Pure particle-free formula, stable long-term operation matching original 700cc centralized lubrication system.
- Reliable low-temperature pumpability: Good low-temperature fluidity, smooth grease supply in winter and low-temperature workshops without delay or jamming.

TESTING ITEMS	TYPICAL DATA	TESTING STANDARDS
NLGI Grade	01	NLGI Classification Standard
Appearance	Light yellow homogeneous grease	Visual Inspection
Worked Penetration(25°C), 0.1mm	330	ASTM D217
Dropping Point, °C	258	ASTM D2265
Kinematic Viscosity of Base Oil(40°C), mm²/s	118	ASTM D445
Cone Oil Separation(100°C,24h), %	2.0	ASTM D6184
Evaporation Loss(99°C,22h), %	1.4	ASTM D972
Water Spray Loss(38°C,1h), %	5.2	ASTM D2266
Copper Corrosion(100°C,24h)	Class 1b	ASTM D130
Four-ball Weld Load PD/N	2250	ASTM D2783

- * 1. Filling Method: Suitable for 700cc bellows cartridge, automatic centralized lubrication system and manual grease gun; preferred standard grade for new full-electric injection molding machines and standard CNC machining centers.
2. Model Matching: Except FANUC and Niigata heavy-duty models, all other Japanese and domestic full-electric & standard CNC equipment prefer TKM-J100.
3. Compatibility Requirement: Do not mix with different types of lubricating grease; clean old grease before replacement.
4. Storage Condition: Store sealed in cool, dry and ventilated warehouse; avoid rain and long-term high-temperature storage.